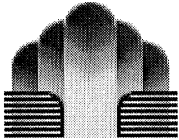
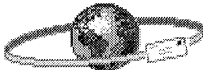


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Peter **Wendol kowski**
04/30/2003 03: 13 PM

To: Peter Wendolkowski/DC/USEPA/US@EPA
cc:
cc:
Subject: Environmental Defense comments on proposed Alkyl Diphenyl
Oxide Disulfonates Category



Richard_Denison@environmentaldefense.org on 04/30/2003 11:46:47 AM

To: oppt.ncic@epamail.epa.gov, hpv.chemrtk@epamail.epa.gov, Rtk Chem/DC/USEPA/US@EPA,
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Subject: Environmental Defense comments on proposed Alkyl Diphenyl Oxide Disulfonates Category

(Submitted via Internet 4/30/03 to oppt.ncic@epa.gov, hpv.chemrtk@epa.gov, boswell.karen@epa.gov, chem.rtk@epa.gov, MTC@mchsi.com, and cldeford@dow.com)

Environmental Defense appreciates this opportunity to submit comments on the robust summary/test plan for the proposed Alkyl Diphenyl Oxide Disulfonates Category.

The Dow Chemical Company, in response to the EPA's High Production Volume Challenge, has submitted a Robust Summary/Test Plan for seven alkyl diphenyl oxide disulfonates (ADPODS), with the proposal that they be considered together as a category. The Test Plan for this proposed category provides an excellent description of the respective chemical structures, their chemical/physical properties and their uses as surfactants in various industrial and consumer products. Basically, each member of the proposed category is based on the diphenyl oxide structure, with each having one or two alkyl side chains ranging from six to sixteen carbon units, and one or two sulfonate groups; each may exist as the acid or the sodium salt. The surfactant properties of these chemicals are derived from the polar sulfonate and a nonpolar alkyl diphenyl oxide moieties that each possesses

The Test Plan submitted for these chemicals is well written to justify their consideration as a category, and describes a previous agreement with EPA under which basic environmental tests were conducted with six ADPODS chosen as representative of this class of chemicals. Thus, we agree that they should be considered together as a category.

Use of the ADPODS as surfactants in cleaning products provides ample opportunity for human and environmental exposure. Further, as surfactants they are skin and eye irritants. These properties are well known and appropriate measures appear to be taken to limit occupational and consumer exposures to concentrated material. Toxicological studies of these compounds described in the Robust Summary and summarized in the Test Plan indicate members of this category have moderate toxicity to aquatic organisms and mammals. Most of these toxicities also appear to be a result of their surfactant properties and are observed primarily in those tissues exposed to high concentrations. These chemicals have little systemic toxicity and no apparent genetic toxicity, or reproductive and developmental toxicity and little potential to bioaccumulate in the environment.

Chemicals in this category have been used and studied for many years. Thus, there is a considerable body of information to describe their

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toxicity, and adequate data are presented in the extensive Robust Summary to address the requested SIDS elements for most of these chemicals. Since these chemicals have been studied over a long period of time, some of these studies are old and predate the development of GLP, but they appear to be sufficient to characterize the toxicity of these compounds. In those cases where the data are considered inadequate, The Dow Chemical Company proposes to test the C-6 and C-16 products to generate the necessary data and extrapolate from these results to predict values for other category members for the respective SIDS elements. Given the fact that the C-6 and C-16 products bracket the molecular weights and chemical/physical properties of the category, we feel this is appropriate.

Thank you for this opportunity to comment.

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